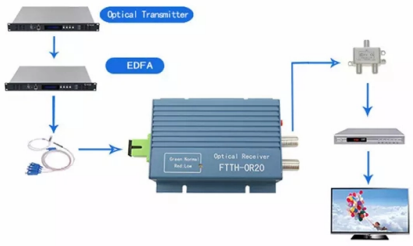
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How to bend indoor electrical distribution boxes on construction sites



Overview

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Key Takeaways

Indoor electrical distribution boxes should not be physically bent; instead, use modular, adjustable, or repositionable systems to fit construction site layouts safely.Proper Handling and Adjustment

Electrical distribution boxes are rigid enclosures made of steel or durable plastic designed to protect internal components from dust, moisture, and mechanical damage . Attempting to bend or deform them can compromise insulation, grounding, and structural integrity, creating serious safety hazards including short circuits or fire . Instead of bending, consider these safe alternatives:

• Modular and Pluggable Systems: Use modular distribution boxes with pluggable connectors (e.g., gesis® MINI, CLASSIC, or RST® systems) that allow flexible configuration and extension without altering the box itself .

• Repositioning: Mount boxes on adjustable brackets or rails to fit tight spaces or unusual layouts. Ensure the box remains accessible, ventilated, and at a safe height (typically ~1.5 meters for indoor installations), .

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• Custom Configurations: Some manufacturers can pre-configure boxes with specific input/output arrangements to match site requirements, avoiding the need for physical modification .
Safety Considerations
• IP/NEMA Ratings: Choose boxes with appropriate protection levels for indoor conditions (IP20–IP54 for dry areas) to prevent dust or accidental contact .

• Cable Management: Use proper cable entry points, strain reliefs, and secure terminations to maintain safety and compliance with IEC or NEC standards .

• Qualified Personnel: Only certified electricians should handle installation, wiring, and adjustments to ensure compliance with safety codes .

• Temporary Power Sites: For construction sites, consider portable or mobile distribution boxes that can be safely moved and reconfigured as the site evolves .
Summary

Rather than bending indoor distribution boxes, use modular, repositionable, or custom-configured systems to adapt to construction site constraints. This approach maintains safety, compliance, and long-term reliability while providing the flexibility needed for temporary or evolving electrical setups .

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2□ The rated value and action setting value of the main distribution box shall be compatible with the rated value and action setting

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